

50 Blow Penetration Method for Versa Drill

Since there is some confusing on how to do a 50 blow test, we are going to follow the ASTM procedure for split-spoon sampling. This means you have to have an N_{60} value of 50 in 6" or less before you can quit.

Ex.

Drill No. G-8690

Auto Hammer Efficiency 76

Depth,ft	Spt Blows/6"	N_{60}	Est. Equivalent Qu, tsf
5	3-4-40 in 3"	100	5.5
10	20-40 in 2"	100	8.5
15	40 in 2"	100	8.5

Drill No. G-8641

Auto Hammer Efficiency 73

Depth,ft	Spt Blows/6"	N_{60}	Est. Equivalent Qu, tsf
5	3-4-41 in 3"	100	5.5
10	20-41 in 2"	100	8.5
15	41 in 2"	100	8.5
20	20-20-21	50	
25	20-30-22	63	

We will report the N_{60} value as 100 as this indicates refusal. We will double this value to determine the estimated equivalent Qu.

Ex. 40 in 3" will be reported as a N_{60} of 100 and the estimated equivalent Qu value will be for 100 blows in 6"